

# UNITED 81 ES DEPARTMENT OF COMMERCE Patent and redemark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNE	Y DOCKET NO.
08/872,088	06/10/97	CARROLL	Р	9186.78
			~	
HM22/0202 DAVID P LHOTA MALIN HALEY DIMAGGIO & CROSBY		HM22/0202	EXAM	MEH
		vaens	CHI ART UNIT	N.C PAPER NUMBER
ONE EAST BRO	OWARD BOULEVAR		Asidat	
SUITE 1609 FORT LAUDERI	DALE FL 33301		164	1 4
			DATE MAILED:	02/02/
This is a communication from the e COMMISSIONER OF PATENTS A		application.		
	OFFICE A	ACTION SUMMARY		
Responsive to communication(s)	filed on	11/2/35		
This action is FINAL.				
Since this application is in condit accordance with the practice und a shortened statutory period for respendicever is tonger, from the mailing heapplication to become abandone 1.136(a).	der Ex parte Quayle, 19 conse to this action is se date of this communic	35 D.C. 11; 453 O.G. 213.  et to expire ation. Failure to respond with	7 month(s),	or thirty days,
Disposition of Claims				
(x) Claim(s)	1-41		is/are pe	nding in the applicat
Of the above claim(s)	21 - 41	,	is/are withdra	wn from considerat
			*	is/are allowed
Claim(s)				is/are allowed.
☐ Claim(s)		-21		is/are rejected.
☐ Claim(s)	1 2-3,1 1-41	are		is/are rejected.
☐ Claim(s)	2 - 3 , / 1 - 4/ 1 - 4/ aftsperson's Patent Draw	~ ₹ / 0 ~ / Y / ≠ ₹ 0 ~ ₹ / are are wing Review, PTO-948.	subject to restriction	is/are rejected. is/are objected to. or election requiren
☐ Claim(s)	t - 7 , f  1 - 4/  aftsperson's Patent Draw ion, filed on b by the Examiner.	-2 / 0 ~ / Y , ≠ 2 0 ~ 2 / are wing Review, PTO-948. is/are obje	subject to restriction	is/are rejected. is/are objected to. or election requiren
☐ Claim(s)	t - 7 , f  1 - 4/  aftsperson's Patent Draw ion, filed on b by the Examiner.	-2 / 0 ~ / Y , ≠ 2 0 ~ 2 / are wing Review, PTO-948. is/are obje	subject to restriction	is/are rejected. is/are objected to. or election requiren
☐ Claim(s)	aftsperson's Patent Dravion, filed on by the Examiner.	−2/ o ~/Y, ≠ ≥ o ~ ₹/ are wing Review, PTO-948. is/are obja	subject to restriction scted to by the Exam	is/are rejected. is/are objected to. or election requiren
☐ Claim(s)	2 - 3 / 1 - 4/  aftsperson's Patent Drawion, filed on by the Examiner.  octed to by the Examine	-2/ 0 -/Y, ≠ 20 - 2/ are wing Review, PTO-948. is/are object.	subject to restriction sected to by the Exam is appr	is/are rejected. is/are objected to. or election requiren
☐ Claim(s)	2 - 3 / 1 - 4/  aftsperson's Patent Drawion, filed on by the Examiner.  octed to by the Examine	-2/ 0 -/Y, ≠ 20 - 2/ are wing Review, PTO-948. is/are object.	subject to restriction sected to by the Exam is appr	is/are rejected. is/are objected to. or election requiren
Claim(s)  X Claim(s)  X Claim(s)  X Claims  Application Papers  The drawing(s) filed on  The proposed drawing correcti  The specification is objected to  The oath or declaration is objected to  Priority under 35 U.S.C. § 119  Acknowledgement is made of a column.	aftsperson's Patent Dravion, filed on by the Examiner.  acted to by the Examine  claim for foreign priority of the CERTIFIED copi	are  wing Review, PTO-948.  is/are obje  r.  under 35 U.S.C. § 119(a)-(	subject to restriction sected to by the Exam is appr	is/are rejected. is/are objected to. or election requiren
Claim(s)  Claim(s)  Claim(s)  Claims  Application Papers  The drawing(s) filed on  The proposed drawing correcti  The oath or declaration is objected to  The oath or declaration is objected to  Acknowledgement is made of a collaboration is compared to the collaboration is made of a collaboration is compared to the collaboration is made of a collaboration is compared to the collaboration is made of a collaboration is collaboration is made of a collaboration is collaboration in collaboration is made of a collaboration is collaboration.	aftsperson's Patent Dravion, filed on by the Examiner.  In the control of the CERTIFIED copicity of the CERTIFIED copicity of the CERTIFIED copicity.	are  wing Review, PTO-948.  is/are object.  is under 35 U.S.C. § 119(a)-(as of the priority documents in the priority doc	subject to restriction sected to by the Exam is appl appl (d). have been	is/are rejected. is/are objected to. or election requiren
Claim(s)  Claim(s)  Claim(s)  Claims  Application Papers  Application Papers  The drawing(s) filed on  The proposed drawing correcti  The specification is objected to  The oath or declaration is objected to  Acknowledgement is made of a c  All □ Some* □ None  □ received.  □ received in Application No. (	aftsperson's Patent Dravion, filed on by the Examiner.  In the control of the CERTIFIED copicity of the CERTIFIED copicity of the CERTIFIED copicity.	are  wing Review, PTO-948.  is/are object.  is under 35 U.S.C. § 119(a)-(as of the priority documents in the priority doc	subject to restriction sected to by the Exam is appl appl (d). have been	is/are rejected. is/are objected to. or election requiren
Claim(s)  Claim(s)  Claim(s)  Claim(s)  Claims  Application Papers  Application Papers  The drawing(s) filed on  The proposed drawing correcti  The specification is objected to  The oath or declaration is objected to  Priority under 35 U.S.C. § 119  Acknowledgement is made of a co  All □ Some* □ None  □ received.  □ received in Application No. (  □ received in this national stage	aftsperson's Patent Drawnion, filed on by the Examiner.  Incided to by the Examiner priority of the CERTIFIED copicities Code/Serial Nurge application from the incident of the center of the c	are wing Review, PTO-948. is/are object.  is of the priority documents in the priority documents	subject to restriction ected to by the Examining is application application and the second sec	is/are rejected. is/are objected to. or election requiren
Claim(s)  Claim(s)  Claim(s)  Claim(s)  Claims  Application Papers  Chaims  The drawing(s) filed on  The proposed drawing correcti  The specification is objected to  The oath or declaration is objected to  Priority under 35 U.S.C. § 119  Acknowledgement is made of a co  All Some None  received.  received in Application No. (  received in this national stage  *Certified copies not received:	aftsperson's Patent Drawnion, filed on by the Examiner.  Incided to by the Examiner priority of the CERTIFIED copicities Code/Serial Nurge application from the incident of the center of the c	are wing Review, PTO-948. is/are object.  is of the priority documents in the priority documents	subject to restriction ected to by the Examining is application application and the second sec	is/are rejected. is/are objected to. or election requiren
Claim(s)  Claim(s)  Claim(s)  Claim(s)  Claims  Application Papers  Application Papers  The drawing(s) filed on  The proposed drawing correcti  The specification is objected to  The oath or declaration is objected to  Acknowledgement is made of a of  received.  received in Application No. (  received in this national stage  *Certified copies not received:  Acknowledgement is made of a of  Acknowledgement is made of a of  *Certified copies not received:  Acknowledgement is made of a of	aftsperson's Patent Dravion, filed on by the Examiner.  In the Center of the Ce	are wing Review, PTO-948. is/are object.  is of the priority documents in the priority documents	subject to restriction ected to by the Examining is application application and the second sec	is/are rejected. is/are objected to. or election requiren
Claim(s)  Claim(s)  Claim(s)  Claim(s)  Claims  Application Papers  Application Papers  The drawing(s) filed on  The proposed drawing correcti  The specification is objected to  The oath or declaration is objected to  Acknowledgement is made of a claim of the control o	aftsperson's Patent Dravious, filed on by the Examiner.  In the Centre of the	are  wing Review, PTO-948.  is/are object.	subject to restriction ected to by the Examining is application application and the second sec	is/are rejected. is/are objected to. or election requiren
Claim(s)  Claim(s)  Claim(s)  Claims  Application Papers  Application Papers  The drawing(s) filed on  The proposed drawing correcti  The specification is objected to  The oath or declaration is objected to  Acknowledgement is made of a color of the proposed in Application No. (  received.  received in Application No. (  received in this national stage of a color of the proposed in the proposed in Acknowledgement is made of a color of the proposed in Acknowledgement is made of a color of the proposed in Attachment(s)	aftsperson's Patent Dravion, filed on by the Examiner.  Including the CERTIFIED copic of the CERTIFIED copic (Series Code/Serial Nurse application from the Including for domestic priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Including for domestic priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Including for domestic priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Including for domestic priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Including for domestic priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Including for domestic priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Including for domestic priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Including for domestic priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Including for domestic priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Including for domestic priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Including for domestic priority of the CERTIFIED copic (Series Code/Series Code/Series Code/Series Code/Series Code/Series Code/Series Code/Series Code/Ser	are  wing Review, PTO-948.  is/are object.	subject to restriction ected to by the Examining is application application and the second sec	is/are rejected. is/are objected to. or election requiren
Claim(s)  Claim(s)  Claim(s)  Claim(s)  Claims  Application Papers  Application Papers  The drawing(s) filed on  The proposed drawing correcti  The specification is objected to  The oath or declaration is objected to  Acknowledgement is made of a of  Received.  received in Application No. (  received in this national stage  *Certified copies not received:  Acknowledgement is made of a of  Acknowledgement is made of a of  *Certified copies not received:  Acknowledgement is made of a of  Attachment(s)	aftsperson's Patent Dravion, filed on by the Examiner.  Including for foreign priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Inclaim for domestic priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Inclaim for domestic priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Inclaim for domestic priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Inclaim for domestic priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Inclaim for domestic priority of the CERTIFIED copic (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Serial Nurse application from the Inclaim for domestic priority (Series Code/Series Code/Series Code/Series Code/Series Code/Series Code/Series Code/Series Code/Series Code/Series Code	are	subject to restriction ected to by the Examining is application application and the second sec	is/are rejected. is/are objected to. or election requiren

- SEE OFFICE ACTION ON THE FOLLOWING PAGES -

PTOL-326 (Rev. 10/95)

Art Unit: 1641

### **DETAILED ACTION**

### Election/Restriction

1. Applicant's election of Group I - claims 1-21 in Paper No. 3 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

# **Drawings**

2. The drawings are objected to for the reasons set forth in the attached PTO-948. Correction is required.

# Claim Rejections - 35 U.S.C. § 112

3. Claims 1-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is vague. The recitation of "operatively associated" in part (f) is clear as to how the lower support layer is related to the upper support layer.

Claim Rejections - 35 U.S.C. § 102

Application/Control Number: 08/872,088

Art Unit: 1641

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Page 3

5. Claims 1 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Krause et al.

Krause et al (U.S. Patent 5,284,622) discloses a device for detection of analytes. The device comprises a base body (4) with a trough-shaped depression (6) in which resides a multilayered test element. The test element is composed of layers (7), (8), and (9) lying loosely on one another. Layer (7) is an erythrocyte separation layer (i.e. a filter layer). Layer (8) may be a paper layer impregnated with a reagent for a preliminary reaction, while there may be used as the bottommost layer for example a reagent film which contains a reagent system which serves for a color change characteristic of the analysis on the underside of layer (9) designated as the color formation layer. A retaining net (13) lies on top of layer (7) and is bonded to base body (4). Retaining net (13) can function as a spreading layer to uniformly distribute sample liquid to layer (7) (see Fig. 2 and col. 4, lines 30-68).

The top face of base body (4) reads on the upper support layer of the instant device where in the upper portion of the trough-shaped depression (6) is a sample receiving port. The base body (4) itself functions as a means for retaining fluid sample since it is a solid composition that will

Art Unit: 1641

hold a fluid sample. The bottom face of base body (4) reads on the lower support layer of the instant device with an opening (14) to view assay results on the bottom side of layer (9).

# Claim Rejections - 35 U.S.C. § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 5-9 and 15-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krause et al in view of Allen et al.

See above for the teachings of Krause et al.

Krause et al differ from the instant invention in failing to teach the use of red blood cell binding agent, such as a lectin, in filter layer (7).

Allen et al (U.S. Patent 4,987,085) discloses a multilayered device for analyzing blood samples. The device includes a separation membrane which contains a red blood cell binding reagent, such as lectins and antibodies (col. 3, lines 13-29). The device also includes a reagent layer that can contain reagents for the detection of analytes in a blood sample including cholesterol and glucose (col. 6, lines 28-68).

Art Unit: 1641

It would have been obvious to one of ordinary skill in the art to incorporate a red blood cell binding agent, such as lectins, as taught by Allen et al in the filter layer (7) of the device of Krause et al because the presence of a red blood cell binding agent in the filter layer (7) would enhance the ability of the filter layer (7) to remove red blood cells from a blood sample that is being assayed.

With respect to claims 5, 8, 9, and 15-19, it would have been obvious to one of ordinary skill in the art to incorporate the specific reagent solutions recited in claims 5, 8, 9, and 15-19 in the device of Krause et al because the choice of analyte dictates what reagents would be required. The device of Krause et al is generic with respect to the types of analytes that can be detected. For example, if the one of ordinary skill in the art were to use the device of Krause et al for the detection of glucose, then reagents for the detection of glucose would be incorporated into the device of Krause et al.

## Allowable Subject Matter

8. Claims 2-3, 10-14, and 20-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 1641

#### Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chris Chin whose telephone number is (703) 308-3991. The examiner can normally be reached on Monday-Thursday from 8:30 am to 6:00 pm. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel, can be reached on (703) 308-4027. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-4242.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

cchin/cc

February 1, 1999

Christopher L. Chin PRIMARY EXAMINER GROUP 1800 / 64/